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W. Gerald Deputy Minister.

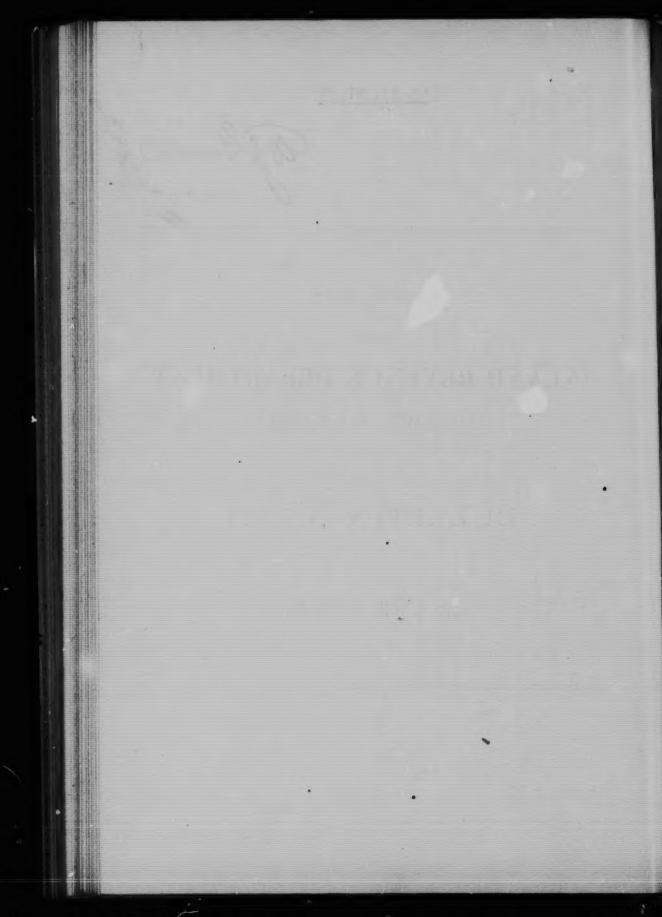
'LABORATORY

OF THE

INLAND REVENUE DEPARTMENT OTTAWA, CANADA.

BULLETIN No. 137

GROUND GINGER



LABORATORY

OF THE

INLAND REVENUE DEPARTMENT

OTTAWA, CANADA

BULLETIN No. 137

GROUND GINGER.

OTTAWA, July 15, 1907.

W. J. GERALD, Esq.,

Deputy Minister of Inland Revenue.

Sir,—I have the honour to submit you a report upon thirty (30) samples of Ground Ginger. These were collected throughout the Dominion, in November, 1906, in consequence of information received (r. 92549) which led to the belief that adulterated ginger was to be found on the Canadian Market.

Analysis shews 39 of these samples to be genuine, while adulteration is not abso-

lutely certain in the remaining sample.

Ginger was made the subject of examination in 1896, and again in 1904. A popsis of results shews the following:-

sia of results anev	es che tottowing		PERCENTAGE.	
	Total samples	Genuine.	Adulterated.	Donbtful.
Bulletin 48 —	examined. 98	67	28	5
Bulletin 95 —	1904 10	60	40	3
Present report.		97		

The usual adulteration of ginger consists in the substitution of cheaper materials (flour, etc.), or in the use of exhausted rhizomes, i.e. stock from which the valuable principles have been more or less completely removed by washing. The examinations now made have had regard to the detection of such adulteration.

It is gratifying to find that ground ginger is now so largely unadulterated.

Some results obtained by the successive employment of certain solvents, are put on record; and may be useful in the event of our having to make a more intimate study

of the properties of ginger at a future time. I beg to recommend the publication of this report, as Bulletin No. 137.

I have the honour to be,

Your obedient servant,

A. McGILL

Acting Chief Analyst.

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	Date of Collection.	Nature of Sa	ample.	No. of Sample.	Name and Address of Vendor.	Quantity.	Cont.	Name and Address of Manufacturer or Furnisher.
19	06.				District of Nove Scotia-R. J.			
Nov	r. 5	Ground Ginge			Waigh, Inspector. Dillon Bros., Sackville St., Halifax, N.S. Jno. Lynch & Sons, Windsor, N.S.		31c.	Jno. P. Mott & Co., Halifax, N.S.
10	5	**		28827	District of Prince Edward Is- land—T. Moore, Inspector. Sinclair & Stowart	i lb.	140	Schmants & G 18 V
					District of New Brunswick - J. C. Ferguson, Inspector.	3 10.1	140,	Schwartz & Son, Hali- fax, N.S.
н	8	11	****	34287	G. E. Barbour Co., Ltd., 111 North Wharf, St. John, N. B.	3 pkge.	30e.	Vendors
н	14	**		34299	Puddington & Merritt, 55 Charlotte St., St. John, N. B. District of Quebee—E. Beland, Inspector,	\$ 1b.	30e	Jno. P. Mott & Co., Halifax, N.S.
н	13	11		20047	Elsear Turcotte, 74 Desfossés, Que.	1 ib.	40e.	R. Herron & Co., Mou- treal.
н	13	**		20050	T. A. Chabot, 271 St. Josephs,	1	40c	Whitehead & Turner
10	13			26052	Que. Chas. Riverin, 55 Couronne,	۱.,	40c	
	13	"			L. N. Bergeron, 70 Couronne,		300	Ewing Co., Montreal Not known
					District of St. HyucintheJ. C. Rouleau, Inspector.			
	81	**		599	N. Mitchell & Co., Granby,	l Ib.	35c	Chaput file et Cie,
н	9				Paradis & Leclaire, Sher- brooke, Que.			Montreal. Marrotte, Leblanc et Cie, Montreal.
					District of Montreal-J. J. Costigun, Inspector.			orej anomytemi:
10	2	н		31626	S. H. Ewing & Son, King 1	lb.	300	Vendor
18	2	11			J. J. Duffy & Co., St. Paul		18c	
11	10	"			St., Montreal. Heron Lebiane Co., Ltd., St. Paul St., Montreal.		10c	#
Dec.	12	11		31636	Theo. Lefebvre & Co., Gos- ford St., Montreal.	1 11	10c	n
					District of Ottawa-A. E. San- derson, Inspector.			
Nov.	13 G	round Ginger.		29384	G. Stewart, 237 Bank St., 1	1h	400	Common Co. 327 311
10	14	**			Ottawa. Geo. Thomas, 63 George St., 1 Ottawa.			Corcoran Co., Welling- ton St., Ottawa. Major, Ottawa.

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*	RESULTS OF ANALYSIS.								
Inspector's Report.	Moistur	Volumb off.	ž		The Rate	Lond to Water	Oak Wass Fraction (on dry otherwise)	10 (0)	Remarks.
	p. c.	p. c.	p. c.	p.c.	p.c.	p. c.	p. o.	p. e.	
Labelled strictly pure	8.29						21.10	78:85	Genuine.
Labelled Jamaica Ginger, strictly pure.	8-38		B 1 6 A				21.10	78 90	10
	7:73	****			*****		21.41	78:50	09
Labelled strictly pure Ground Ginger, Acorn Brand, Maritime Spice & Coffee Mills, St. John,	7:52			3·46 3·64		6-80	20.86	79-18	10
N.B. From wooden box in store.	7:22				• • • • •		21 · 16	78-84	и
	7:70				•••				Doubtful. Many stare granules do not sho cross with polarize light.
	7:48				*****				Genuine.
	7.70							78.70	
***************************************	7:88	2	*****	*****			21.87	78-13	
The box was marked pure	8-48						20.78	79:22	10
Jamaica Ginger. Box marked pure	6.92						22:30	77.70	0
Taken at factory from	7.52						21 '62	78:36	10
stock.	7.86						23 16	77.8	"
Taken at factory from bulk stock, who ale price, 20c. per lb.	7:79				ļ		1	78:04	
Sample collected at factory	7.10	••••					90.64	79-30	N
Taken from bulk	6·40 9·82	2.6	3.3	1.4	5 0	5.7		75.50	0 "

	Nature of Sample.		Nature of Sample.		Nature of Sample,		Name and Address of Vendor.	Quantity.	G. E.	Name and Address of Manufacturer or Furnisher,
19	06.				District of Kingston-J. Hopan, Inspector.					
**	5	Ground Ging	(MT	3100	Chas. Sunders, Princess St.	1 115	30n	. Hamilton Coffee and		
61	5	**	***		Kingston. Anderson Bros., Princess St., Kingston.		400.	Spice Co. Not known		
					District of Toronto-T. Kidd, Acting Inspector.					
41	14		****	30219	Peter Anderson, Guelph, Ont	d lb.	20c.	McPhereon, Glasco &		
**	19	"	****	30233	Geo. R. Reynolds, Beeton, Ont.	1	20e	McPherson, Glasco & Co., Hamilton, H. P. Eckart, Toronto		
41	02	**		30236	J. D. Elliott, Tottenham,	6 ons.	30e.	Robert Gregg & Co.		
**	:20	н	••••	30236	William Hamel, Tottonham, Ont.	å 1b.	200	Toronto, Perkins, Ince & Co. Toronto.		
					District of London-T. Kidd, Inspector.					
**	3	10	****	30200	Wm. Anderson, Chatham,	1 "	20c.	A. M. Smith & Co., Lon-		
**	8	e	•	30213	Chas. A. Nai.a, Goderich, Ont.	. "		don, Ont. Gorman & Eckart, Lon- don, Ont.		
					District of Manitoba - Wm. M. Conklin, Inspector.					
91	8				McLellan & English, Virden, Manitoba.	i lb.	20e	Todhunter & Mitchell,		
11	8	**		25910	D. Rice, Brandon, Man		20e	Toronto. Codville & Co., Winnipeg.		
					District of British Columbia— E. B. Parkinson, Inspector.					
11	9	n		28187	The Empress Mfg. Co., Ltd., Vancouver, B.C.	3 tine	90e	Vendor		
н	10	n		26194	F. Wright, Granville St.	i In.	30c.	Todhunter & Mitchell,		
	1:	'n		28199	F. Wright, Granville St., Vancouver, B.C. Woodward Dep. Stores, Ab- bott St., Vancouver, B.C.	3 tins		Toronto. Wm. Braid & Co., Vancouver, B.C.		
					4					

	RESULTS OF ANAMAIS.								
Inspector's Report.	Mairtum	Volutile oil.	ž		Le o Alesta Pier Phylis Pier Phylis	Las to Water	Cald Water Ex- traction (on dry substances)	101	Remarks,
	P. C. 8-84 6-66 6-62 2-60	p. c. 2.66 2.38	p. c. 0 82 1 26	p. c.	p. c. 3·1a 2·59	p. c. 5:40 2:70		p. o. 76:20	Genuine.
	9·18 6·00 8·96 8·46 8·40 8·24 8·96 7·42	2 84 1 56 1 76 1 58	1 30 0 72 1 04 2 20	13	2 14	-3 70	19:96 24:08	78-67 80-04 75-87 75-75	10
	8·26 8·16 8·42 6·64	3·13	*****					79-02	,
	7:96 7:48							77·78	Genuine; but a little foreign starch is pre- sent.
Purchased at the factory, 'Empress brand.' Empress brand Coffee, Spices and Extracts always reliable. Bulk ginger	7.00	1	2.3	2 1	6 5:2	4.0	•	78:14	Genuine.
Double superfine purity. Strength guaranteed first quality. The spice in this can is guaranteed to be of the finest quality, ful strength and full weight. Put up expressly for vendors by Wm. Braid & Co.		••••					20:30	79.60	